	CRF Errors Corrected by the STIC Systems Branch.  CRF Processing Date: 5/9/2003
Serkal N	CRF Processing Date: 71/2003  Changed a file from non-ASCII to ASCII ENTED  CRF Processing Date: 71/2003  Edited by: Verified by: Verif
	the services text was wramped down to the next line.
	Edited the Current Application Data section with the actual current number. The number inputted by the continuous of the prior application data or other
	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included:
	Deleted extra, invalid, headings used by an applicant, specifically:  Sequence 3—deleted alphaberical headings
	Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an erfor in the Number of Sequences field, specifically:
	A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
	Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a Patentin bug). Sequences corrected:
	Other:
*Examine	er: The above corrections must be communicated to the applicant in the first Office 3/1/95  Action. DO NOT send a copy of this form.



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/634,287C

DATE: 05/09/2003 TIME: 09:47:36

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05092003\I634287C.raw

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3 <110> APPLICANT: BRISTOL-MYERS SQUIBB COMPANY
 5 <120> TITLE OF INVENTION: AGGRECAN DEGRADING METALLO PROTEASES
7 <130> FILE REFERENCE: DM6090 DIV
9 <140> CURRENT APPLICATION NUMBER: 09/634,287C
10 <141> CURRENT FILING DATE: 2000-08-09
12 <150> PRIOR APPLICATION NUMBER: 60/053,850
13 <151> PRIOR FILING DATE: 1997-07-25
15 <150> PRIOR APPLICATION NUMBER: 60/055,836
16 <151> PRIOR FILING DATE: 1997-08-15
18 <150> PRIOR APPLICATION NUMBER: 60/062,169
19 <151> PRIOR FILING DATE: 1997-10-16
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23 <170> SOFTWARE: PatentIn version 3.1 25 <210> SEQ ID NO: 1

26 <211> LENGTH: 4192

27 <212> TYPE: DNA

28 <213> ORGANISM: Homo sapiens

21 <160> NUMBER OF SEQ ID NOS: 48

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39	tttctccatt	tcctttaacg	gtcctcagcc	cttctgaaaa	ctttgcctct	gaccttggca	300
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				tgcagtacca			420
						ctgcctcctg	480
				tggctgcttc			540
				ccccgggagg			600
				ggcgcccctg			660
				ctggagcagg			720
				cctgagctgc			780
				ccggagtcgg			840
				cggggggctg			900
				cctggggctc			960
				gtcaaggctc			1020
				ctgagtagat			1080
67				gcggggctaa			1140
69				ccaagcatcc			1200
				gaggagggc			1260
				cagcggggcc			1320
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79 gccattgtgg aggatgatgg gctccagtca gccttcactg ctgctcatga actgggtcat

1500 ·

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05092003\I634287C.raw

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167 tcggcctccc aaagtgctgg gattacaggt gtgagccacc acgcccggta catattttt
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174 <212> TYPE: PRT

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Input Set : A:\PTO.AMC.txt

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	_	Trn	Glv	Δla	-	Pro	Cvs	T.e.II	Len		Pro	Tle	Va 1	Pro		Ser
184	пси	112	OI,	20	0111	110	CID	200	25	Deu				30		<b>J</b>
	Ψrn.	T.011	Va 1		T.e.u	T.011	T.011	T.en		Len	Δla	Ser	Len	Leu	Pro	Ser
188	115	ысц	35	115	пси	LCu	LCu	40	Deu	Deu		DCI	45	200	110	501
	Δla	Δra		·Δla	Ser	Pro	T.e.ii		Δra	Glu	Glu	Glu		Val	Phe	Pro
192	AIU	50	Licu	hiu	OCI	110	55	110	**** 9	Olu	014	60			1	
	Glu		T.e.ii	Asn	Glv	Ser		Len	Pro	Glv	Ser		Ala	Pro	Ala	Αrσ
196		ш	Dea		011	70	,	200		0-1	75	~ · · · · ·				80
		Len	Cvs	Ara	Len		Ala	Phe	Glv	Glu		Leu	Leu	Leu	Glu	
200			0,10		85	<b>U</b>			02.1	90					95	
	Glu	Gln	Asp	Ser		Val	Gln	Val	Glu	Glv	Leu	Thr	Val	Gln	Tvr	Leu
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219	His	Leu	Gln	Pro	Leu	Glu	Gly	Gly	Thr	Pro	Asn	Ser	Ala	Gly	Gly	Pro
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227	Met	Cys	Asn	Val	Lys	Ala	Pro	Leu	Gly	Ser	Pro	Ser	Pro	Arg	Pro	Arg
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235	Val	Ala	Asp	Asp	Lys	Met	Ala	Ala	Phe	His	Gly	Ala	Gly	Leu	Lys	Arg
236	225					230					235					240
239	Tyr	Leu	Leu	Thr	Val	Met	Ala	Ala	Ala	Ala	Lys	Ala	Phe	Lys	His	${\tt Pro}$
240					245					250					255	
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Input Set : A:\PTO.AMC.txt

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311	Trp	_	Asp	Cys	Ser	Arg	Thr 535	Cys	Gly	Gly	Gly	Val 540	Gln	Phe	Ser	Ser
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316	545					550					555					560
320					565					570				Cys	575	
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327 328	Arg	Thr	Asp 595	Leu	Phe	Lys	Ser	Phe 600	Pro	Gly	Pro	Met	Asp 605	Trp	Val	Pro
331 332	Arg	Tyr 610	Thr	Gly	Val	Ala	Pro 615	Gln	Asp	Gln	Cys	Lys 620	Leu	Thr	Cys	Gln
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348 351	Ser	Glv	675 Ser	Phe	Ara	Lvs	Phe	680 Ara	Tvr	Glv	Tvr	Asn	685 Asn	Val	Val	Thr
352		690			_			_	-1-						,	
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360	GIY	H1S	Arg	Ser	725	Tyr	Leu	АТа	Leu	ьуs 730	Leu	Pro	Asp	Gly	35 735	Tyr
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364				740		- 4 -	<b></b>		745					750		
367 368	Leu	Pro	Gly 755	Ala	Val	Ser	Leu	Arg 760	Tyr	ser	Gly	Ala	Thr 765	Ala	Ala	Ser
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# RAW SEQUENCE LISTING PATENT APPLICATION: US/09/634,287C DATE: 05/09/2003 TIME: 09:47:36

Input Set : A:\PTO.AMC.txt

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                                            810
     383 Trp Leu His Arg Arg Ala Gln Ile Leu Glu Ile Leu Arg Arg Pro
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/634,287C

DATE: 05/09/2003 TIME: 09:47:37

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05092003\I634287C.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:21; Xaa Pos. 12



1600

DATE: 05/07/2003 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/634,287C TIME: 13:34:19

Input Set : A:\DM6909.ST25.txt

Output Set: N:\CRF4\05072003\1634287C.raw

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 5 <120> TITLE OF INVENTION: AGGRECAN DEGRADING METALLO PROTEASES
7 <130> FILE REFERENCE: DM6090 DIV
9 <140> CURRENT APPLICATION NUMBER: 09/634,287C
10 <141> CURRENT FILING DATE: 2000-08-09
12 <150> PRIOR APPLICATION NUMBER: 60/053,850
13 <151> PRIOR FILING DATE: 1997-07-25
15 <150> PRIOR APPLICATION NUMBER: 60/055,836
16 <151> PRIOR FILING DATE: 1997-08-15
18 <150> PRIOR APPLICATION NUMBER: 60/062,169
19 <151> PRIOR FILING DATE: 1997-10-16
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21 <160> NUMBER OF SEQ ID NOS: 48

23 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply Corrected Diskette Needed

#### **ERRORED SEQUENCES**

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Input Set : A:\DM6909.ST25.txt

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486 <210> SEQ ID NO: 13
487 <211> LENGTH: 17
488 <212> TYPE: PRT
489 <213> ORGANISM: Homo sapiens
491 <400> SEQUENCE: 13
493 Cys Ala Ser Leu Ser Arg Phe Val Glu Thr Leu Val Val Ala Asp Asp
494 1
                    5
497 Lys
501 <210> SEQ ID NO: 14
502 <211> LENGTH: 3250
503 <212> TYPE: DNA
504 <213> ORGANISM: Homo sapiens
506 <400> SEQUENCE: 14
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Input Set : A:\DM6909.ST25.txt

		ctgcaagcaa					60
	-	aatacccata	-				120
511	atgctgctcg	ggtgggcgtc	cctgctgctg	tgcgcgttcc	gcctgcccct	ggccgcggtc	180
		cgacacctgc					240
		gccggcggca					300
517	ccgcaccccc	tggcgcagcg	gcgcaggagc	aaggggctgg	tgcagaacat	cgaccaactc	360
519	tactccggcg	gcggcaaggt	gggctacctc	gtctacgcgg	gcggccggag	gttcctcttg	420
521	gacctggagc	gagatggttc	ggtgggcatt	gctggcttcg	tgcccgcagg	aggcgggacg	480
523	agtgcgccct	ggcgccaccg	gagccactgc	ttctatcggg	gcacagtgga	cgctagtccc	540
525	cgctctctgg	ctgtctttga	cctctgtggg	ggtctcgacg	gcttcttcgc	ggtcaagcac	600
527	gcgcgctaca	ccctaaagcc	actgctgcgc	ggaccctggg	cggaggaaga	aaagggg <u>c</u> gc	660
529	gtgtacgggg	atgggtccgc	acggatcctg	cacgtctaca	cccgcgaggg	cttcagcttc	720
531	gaggccctgc	cgccgcgcgc	cagctgcgaa	acccccgcgt	ccacaccgga	ggcccacgag	780
533	catgctccgg	cgcacagcaa	cccgagcgga	cgcgcagcac	tggcctcgca	gctcttggac	840
535	cagtccgctc	tctcgcccgc	tgggggctca	ggaccgcaga	cgtggtggcg	geggeggege	900
		cccgggcccg					960
539	cggttgtatg	gccggggcct	gcagcattac	ctgctgaccc	tggcctccat	cgccaatagg	1020
		atgctagcat	-				1080
		aggacaagag					1140
		ggcagcacca					1200
		tgtttactcg	_			-	1260
		ttgggaccat					1320
		cagccttcac					1380
		aattctgtga					1440
		ccagcattga					1500
		tggatgatgg					1560
		aagaactccc					1620
		agtactccgt				_	1680
		agggccagat					1740
		aggggagaat					1800
		cgtcaagcca					1860
		gaggaggagt					1920
		gctactgcac					1980
		atggtaaatc					2040
		aaggagtcaa					2100
		tgtgcaagct			_		2160
		tgaccgatgg					2220
		tgagaactgg					2280
		gtggaggaga					2340
		gttacactga					2400
		aagccaaaga					2460
		accttatcaa					2520
		cagtcatgaa					2580
		ctgccacgaa					2640
		atgtccgtta					2700
		gtcatggcag					2760
		ggctcgcctg					2820
		atggaaaccg					2880
		aatgcttgtt					2940
	Jogeolauge	-acycleyce	Jaagaaacyc	cagoolgigg	Lucyacocc	acycacaaay	2740

Input Set : A:\DM6909.ST25.txt

607 609 611 613 615 618	gaad tgtcaac ggg ctt <21 <21	agtorgacers  ttgge  gacar  taate  0> Si  1> Li	atg daaa dagag dag	cttca agagg ttat gaaga D NO H: 9:	agtga gatg tgaad atggo	ac at tg ca ca ta	ttgte actge	caaca cttca tggga	a gga a cga a tta	agto tgaca acaa	caat agtg gaaa	tate gtg cac	gggc: acct <sup>:</sup> tgate	aga a tgc a gaa t	atct aata tgtt	cgcaca gctctc tagaaa aaatca gaatgt	3000 3060 3120 3180 3240 3250
	) <212> TYPE: PRT L <213> ORGANISM: Homo sapiens																
	3 <400> SEQUENCE: 15																
						λla	Sor	Leu	Lan	Τ.Δ11	Cve	λla	Dho	λνα	T.011	Dro	
626		neu	пеп	GIY	5	AIG	SET	пеп	пец	10	Cys	AIu	·	n y	15	110	
		Δla	Δla	Va 1	-	Pro	Δla	Ala	ጥh r		Δla	Gln	Asn	T.vc		Glv	
630	пси		Alu	20	Gry	110	AIu	ALU	25	110	nia	GIII	nsp	30	niu	GLY	
	Gln	Pro	Pro		Δla	Δla	Δla	Ala		Gln	Pro	Ara	Ara		Gln	Glv	
634	0111	110	35	1111	1114	1114	·····	40	21.1.4	01		**** 9	45	9	<b>Q 111</b>	011	
	Glu	Glu		Gln	Glu	Ara	Αla	Glu	Pro	Pro	Glv	His		His	Pro	Leu	
638	0_4	50		<b>4</b> –		5	55				1	60					
	Ala		Ara	Ara	Ara	Ser		Gly	Leu	Val	Gln		Ile	Asp	Gln	Leu	
642			5	9	,	70	-1-	1			75					80	
		Ser	Gly	Gly	Gly	Lys	Val	Gly	Tyr	Leu	Val	Tyr	Ala	Gly	Gly		
646	•		-	_	85	-		-	•	90		-		-	95	-	
649	Arq	Phe	Leu	Leu	Asp	Leu	Glu	Arg	Asp	Gly	Ser	Val	Gly	Ile	Ala	Gly	
650	-			100	_				105				_	110		_	
653	Phe	Val	Pro	Ala	Gly	Gly	Gly	Thr	Ser	Ala	Pro	Trp	Arg	His	Arg	Ser	
654			115					120					125				
657	His	Cys	Phe	Tyr	Arg	Gly	Thr	Val	Asp	Ala	Ser	Pro	Arg	Ser	Leu	Ala	
658		130					135					140					
661	Val	Phe	Asp	Leu	Cys	Gly	Gly	Leu	Asp	Gly	Phe	Phe	Ala	Val	Lys	His	
	145					150					155					160	
	Ala	Arg	Tyr	Thr		Lys	Pro	Leu	Leu	_	Gly	Pro	Trp	Ala		Glu	
666			_		165				_	170	_		_		175	_	
	Glu	Lys	Gly	_	Val	$\mathtt{Tyr}$	Gly	Asp		Ser	Ala	Arg	Ile		His	Val	
670	_	•	_	180			_		185		_	_	_	190		_	
	Tyr	Thr		Glu	GLY	Phe	Ser	Phe	GLu	Ala	Leu	Pro		Arg	Ala	Ser	
674	<b>a</b>	<b>a</b> 1	195	D		<b>a</b>	m1	200	<b>a</b> 1		77.1 a	<b>01</b>	205		D	.1-	
	Cys		Tnr	Pro	Ala	ser		Pro	GIU	Ата	HIS		HIS	Ala	Pro	Ala	
678	TT 4 ~	210	3	D	0	<b>01</b>	215	.1.	<b>31</b> -	T	31-	220	C1 -	T	T ~	3.00	
		ser	ASI	PIO	ser	230	Arg	Ala	Ala	Leu	235	ser	GIII	reu	Leu	240	
	225	002	7 l a	T OU	Con		<b>3</b> 15	Clar	C1	Con		Dro	Cln	mb∽	Tro		
686	GIII	ser	HIG	ьеи	245	PLO	нта	Gly	GTÅ	250	сту	PLO	GTII	TIIT	255	тъ	
	Δrσ	Δra	Δra	Δra		Ser	Tl۵	Ser	Δra		Δτα	Gln	Val	Glu		Len	
690	ALY	лгу	пту	260	AT 9	DET	116	OGI	265	ALU	ary	GIH	AGT	270	Leu	LCu	
	Leu	Va1	Ala		Ala	Ser	Met	Ala		Len	Tur	Glv	Arσ		Len	Gln	
694			275					280	9		-1-	1	285	1		··	
	His	Tvr		Leu	Thr	Leu	Ala	Ser	Ile	Ala	Asn	Ara		Tyr	Ser	His	
698		290					295					300				<u>-</u>	

Input Set : A:\DM6909.ST25.txt

		Ser	Ile	Glu	Asn		Ile	Arg	Leu	Ala		Val	Lys	Val	Val	
	305					310					315					320
	Leu	Gly	Asp	Lys	_	Lys	Ser	Leu	Glu		Ser	Lys	Asn	Ala		Thr
706					325					330					335	
709	Thr	Leu	Lys	Asn	Phe	Cys	Lys	Trp		His	Gln	His	Asn	Gln	Leu	Gly
710				340					345					350		
713	Asp	Asp		Glu	Glu	His	Tyr	_	Ala	Ala	Ile	Leu	Phe	Thr	Arg	Glu
714			355					360					365			
717	Asp	Leu	Cys	Gly	His	His	Ser	Cys	Asp	Thr	Leu	Gly	Met	Ala	Asp	Val
718		370					375					380				
721	Gly	Thr	Ile	Cys	Ser	Pro	Glu	Arg	Ser	Cys	Ala	Val	Ile	Glu	Asp	Asp
722	385					390					395					400
725	Gly	Leu	His	Ala	Ala	Phe	Thr	Val	Ala	His	Glu	Ile	Gly	His	Leu	Leu
726					405					410					415	
729	Gly	Leu	Ser	His	Asp	Asp	Ser	Lys	Phe	Cys	Glu	$\operatorname{Glu}$	Thr	Phe	Gly	Ser
730				420					425					430		
733	Thr	Glu	Asp	Lys	Arg	Leu	Met	Ser	Ser	Ile	Leu	Thr	Ser	Ile	Asp	Ala
734			435					440					445			
737	Ser	Lys	Pro	Trp	Ser	Lys	Cys	Thr	Ser	Ala	Thr	Ile	Thr	Glu	Phe	Leu
738		450					455					460				
741	Asp	Asp	Gly	His	Gly	Asn	Cys	Leu	Leu	Asp	Leu	Pro	Arg	Lys	Gln	Ile
742	465	_	_		_	470	_			_	475		_	_		480
745	Leu	Gly	Pro	Glu	Glu	Leu	Pro	Gly	Gln	Thr	Tyr	Asp	Ala	Thr	Gln	Gln
746		-			485			_		490	_	_			495	
749	Cys	Asn	Leu	Thr	Phe	Gly	Pro	Glu	Tyr	Ser	۷al	Cys	Pro	Gly	Met	Asp
750	_			500		_			505			_		510		_
753	Val	Cys	Ala	Arg	Leu	Trp	Cys	Ala	Val	Val	Arg	Gln	Gly	Gln	Met	Val
754		_	515	_		_	_	520			-		525			
757	Cys	Leu	Thr	Lys	Lys	Leu	Pro	Ala	Val	Glu	Gly	Thr	Pro	Cys	Gly	Lys
758		530			_		535					540				
761	Gly	Arg	Ile	Cys	Leu	Gln	Gly	Lys	Cys	Val	Asp	Lys	Thr	Lys	Lys	Lys
	545	_		_		550	_				555					560
765	Tyr	Tyr	Ser	Thr	Ser	Ser	His	Gly	Asn	Trp	Gly	Ser	Trp	Gly	Ser	Trp
766	_	_			565			_		570	_		_	_	575	_
769	Gly	Gln	Cys	Ser	Arg	Ser	Cys	Gly	Gly	Gly	Val	Gln	Phe	Ala	Tyr	Arg
770	_		_	580	-		_	_	585	_				590	-	
773	His	Cys	Asn	Asn	Pro	Ala	Pro	Arg	Asn	Asn	Gly	Arg	Tyr	Cys	Thr	Gly
774		_	595					600			_	_	605	_		
777	Lys	Arg	Ala	Ile	Tyr	Arg	Ser	Cys	Ser	Leu	Met	Pro	Cys	Pro	Pro	Asn
778	-	610			_	_	615	_				620	-			
781	Gly	Lys	Ser	Phe	Arg	His	Glu	Gln	Cys	Glu	Ala	Lys	Asn	Gly	Tyr	Gln
782		-			•	630			-		635	-		_	-	640
		Asp	Ala	Lys	Gly	Val	Lys	Thr	Phe	Val	Glu	Trp	Val	Pro	Lys	Tyr
786		•		-	645		-			650		•			655	-
	Ala	Glv	Val	Leu		Ala	Asp	Val	Cys		Leu	Thr	Cys	Arq		Lys
790	·	-		660			-		665	-	·		-	670		-
	Gly	Thr	Gly	Tyr	Tyr	Val	Val	Phe		Pro	Lys	Val	Thr		Gly	Thr
794			675	-	•			680			-		685	•	-	
	Glu	Cys	Arq	Pro	Tyr	Ser	Asn	Ser	Val	Cys	Val	Arq	Gly	Lys	Cys	Val
		-	_		-					-		_	-	-	-	

Input Set : A:\DM6909.ST25.txt

Output Set: N:\CRF4\05072003\I634287C.raw

```
690
                            695
801 Arg Thr Gly Cys Asp Gly Ile Ile Gly Ser Lys Leu Gln Tyr Asp Lys
                        710
                                            715
805 Cys Gly Val Cys Gly Gly Asp Asn Ser Ser Cys Thr Lys Ile Val Gly
                   725
                                       730
809 Thr Phe Asn Lys Lys Ser Lys Gly Tyr Thr Asp Val Val Arg Ile Pro
                                    745
                740
813 Glu Gly Ala Thr His Ile Lys Val Arg Gln Phe Lys Ala Lys Asp Gln
817 Thr Arg Phe Thr Ala Tyr Leu Ala Leu Lys Lys Lys Asn Gly Glu Tyr
                            775
821 Leu Ile Asn Gly Lys Tyr Met Ile Ser Thr Ser Glu Thr Ile Ile Asp
                        790
                                           795
825 Ile Asn Gly Thr Val Met Asn Tyr Ser Gly Trp Ser His Arg Asp Asp
                    805
                                        810
829 Phe Leu His Gly Met Gly Tyr Ser Ala Thr Lys Glu Ile Leu Ile Val
              820
                                    825
833 Gln Ile Leu Ala Thr Asp Pro Thr Lys Pro Leu Asp Val Arg Tyr Ser
           835
                               840
837 Phe Phe Val Pro Lys Lys Ser Thr Pro Lys Val Asn Ser Val Thr Ser
                            855
841 His Gly Ser Asn Lys Val Gly Ser His Thr Ser Gln Pro Gln Trp Val
                        870
                                            875
845 Thr Gly Pro Trp Leu Ala Cys Ser Arg Thr Cys Asp Thr Gly Trp His
                    885
                                        890
849 Thr Arg Thr Val Gln Cys Gln Asp Gly Asn Arg Lys Leu Ala Lys Gly
               900
                                   905
853 Cys Pro Leu Ser Gln Arg Pro Ser Ala Phe Lys Gln Cys Leu Leu Lys
854
                               920
            915
857 Lys Cys
858
     930
861 <210> SEQ ID NO: 16
862 <211> LENGTH: 42
863 <212> TYPE: PRT
864 <213> ORGANISM: Homo sapiens
866 <400> SEQUENCE: 16
868 Ser Ile Ser Arg Ala Arg Gln Val Glu Leu Leu Val Ala Asp Ala
872 Ser Met Ala Arg Met Tyr Gly Arg Gly Leu Gln His Tyr Leu Leu Thr
       20
876 Leu Ala Ser Ile Ala Asn Lys Leu Tyr Phe
           35
880 <210> SEQ ID NO: 17
881 <211> LENGTH: 23
882 <212> TYPE: DNA
883 <213> ORGANISM: Mus musculus
885 <400> SEQUENCE: 17
886 cggccacgac cctcaagaac ttt
889 <210> SEO ID NO: 18
```

23

Input Set : A:\DM6909.ST25.txt

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890 <211> LENGTH: 25
     891 <212> TYPE: DNA
     892 <213> ORGANISM: Mus musculus
     894 <400> SEQUENCE: 18
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                                                                                 25
     898 <210> SEQ ID NO: 19
     899 <211> LENGTH: 22
     900 <212> TYPE: DNA
     901 <213> ORGANISM: Homo sapiens
     903 <400> SEQUENCE: 19
                                                                                 22
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     907 <210> SEQ ID NO: 20
     908 <211> LENGTH: 23
     909 <212> TYPE: DNA
     910 <213> ORGANISM: Homo sapiens
     912 <400> SEQUENCE: 20
                                                                                 23
     913 gtgcatttgg accagggctt aga
     916 <210> SEQ ID NO: 21
     917 <211> LENGTH: 13
     918 <212> TYPE: PRT
     919 <213> ORGANISM: Artificial Sequence
     921 <220> FEATURE:
     922 <223> OTHER INFORMATION: Synthesized peptide
     924 <220> FEATURE:
     925 <221> NAME/KEY: MISC_FEATURE
     926 <222> LOCATION: (12)..(12)
                                            delete-duplicated
     927 <223> OTHER INFORMATION: Acp
     930 <220> FEATURE:
     93/1 <221> NAME/KEY: MOD_RES
     9/32 <222> LOCATION: (12)..(12)
     933 <223> OTHER INFORMATION: ACD
     936 <400> SEQUENCE: 21
W--> 938 Ser Ile Ser Arg Ala Arg Gln Val Glu Leu Leu Xaa Cys
     939 1
                         5
     942 <210> SEQ ID NO: 22
     943 <211> LENGTH: 14
     944 <212> TYPE: PRT
     945 <213> ORGANISM: homo sapiens
     947 <400> SEQUENCE: 22
     949 Asn Ile Thr Glu Gly Glu Ala Arg Gly Ser Val Ile Leu Thr
     950 1
                         5
                                              10
     953 <210> SEQ ID NO: 23
     954 <211> LENGTH: 14
     955 <212> TYPE: PRT
     956 <213> ORGANISM: bovine
     958 <400> SEQUENCE: 23
     960 Asn Ile Thr Glu Gly Glu Ala Arg Gly Ser Val Ile Leu Thr
     961 1
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     964 <210> SEQ ID NO: 24
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Input Set : A:\DM6909.ST25.txt

```
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966 <212> TYPE: PRT
967 <213> ORGANISM: rat
969 <400> SEQUENCE: 24
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975 <210> SEQ ID NO: 25
976 <211> LENGTH: 14
977 <212> TYPE: PRT
978 <213> ORGANISM: mouse
980 <400> SEQUENCE: 25
982 Asn Val Thr Glu Gly Glu Ala Leu Gly Ser Val Ile Leu Thr
983 1
                    5
                                         10
986 <210> SEQ ID NO: 26
987 <211> LENGTH: 14
988 <212> TYPE: PRT
989 <213> ORGANISM: pig
991 <400> SEQUENCE: 26
993 Asn Ile Thr Glu Gly Glu Ala Arg Gly Thr Val Ile Leu Thr
994 1
                                         10
997 <210> SEQ ID NO: 27
998 <211> LENGTH: 14
999 <212> TYPE: PRT
1000 <213> ORGANISM: sheep
1002 <400> SEQUENCE: 27
1004 Asn Ile Thr Glu Gly Glu Ala Arg Gly Asn Val Ile Leu Thr
1005 1
1008 <210> SEQ ID NO: 28
1009 <211> LENGTH: 11
1010 <212> TYPE: PRT
1011 <213> ORGANISM: chicken
1013 <400> SEQUENCE: 28
1015 Asn Val Thr Glu Glu Glu Ala Arg Gly Ser Ile
1016 1
                     5
1019 <210> SEQ ID NO: 29
1020 <211> LENGTH: 14
1021 <212> TYPE: PRT
1022 <213> ORGANISM: horse
1024 <400> SEQUENCE: 29
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1027 1
1030 <210> SEQ ID NO: 30
1031 <211> LENGTH: 16
1032 <212> TYPE: PRT
1033 <213> ORGANISM: homo sapiens
1035 <400> SEQUENCE: 30
1037 Ala Ser Thr Ala Ser Glu Leu Glu Gly Arg Gly Thr Ile Gly Ile Ser
1038 1
                                          10
                                                               15
1041 <210> SEQ ID NO: 31
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Input Set : A:\DM6909.ST25.txt

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1042 <211> LENGTH: 16
1043 <212> TYPE: PRT
1044 <213> ORGANISM: bovine
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1052 <210> SEQ ID NO: 32
1053 <211> LENGTH: 16
1054 <212> TYPE: PRT
1055 <213> ORGANISM: mouse
1057 <400> SEQUENCE: 32
1059 Ala Thr Thr Ser Ser Glu Leu Glu Gly Arg Gly Thr Ile Gly Ile Ser
                     5
1060 1
1063 <210> SEQ ID NO: 33
1064 <211> LENGTH: 16
1065 <212> TYPE: PRT
1066 <213> ORGANISM: rat
1068 <400> SEQUENCE: 33
1070 Ala Thr Thr Ala Ser Glu Leu Glu Gly Arg Gly Thr Ile Ser Val Ser
1071 1
                                          10
1074 <210> SEQ ID NO: 34
1075 <211> LENGTH: 16
1076 <212> TYPE: PRT
1077 <213> ORGANISM: homo sapiens
1079 <400> SEQUENCE: 34
1081 Pro Thr Thr Phe Lys Glu Glu Glu Gly Leu Gly Ser Val Glu Leu Ser
1082 1
                                         10
1085 <210> SEQ ID NO: 35
1086 <211> LENGTH: 16
1087 <212> TYPE: PRT
1088 <213> ORGANISM: bovine
1090 <400> SEQUENCE: 35
1092 Pro Thr Thr Phe Lys Glu Glu Glu Gly Leu Gly Ser Val Glu Leu Ser
1093 1
1096 <210> SEQ ID NO: 36
1097 <211> LENGTH: 16
1098 <212> TYPE: PRT
1099 <213> ORGANISM: rat
1101 <400> SEQUENCE: 36
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1104 1
                     5
                                         10
1107 <210> SEQ ID NO: 37
1108 <211> LENGTH: 16
1109 <212> TYPE: PRT
1110 <213> ORGANISM: mouse
1112 <400> SEQUENCE: 37
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1115 1
                                         10
1118 <210> SEQ ID NO: 38
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Input Set : A:\DM6909.ST25.txt

Output Set: N:\CRF4\05072003\I634287C.raw

1119 <211> LENGTH: 16 1120 <212> TYPE: PRT 1121 <213> ORGANISM: homo sapiens 1123 <400> SEQUENCE: 38 1125 Thr Gln Ala Pro Thr Ala Gln Glu Ala Gly Glu Gly Pro Ser Gly Ile 1129 <210> SEQ ID NO: 39 1130 <211> LENGTH: 16 1131 <212> TYPE: PRT 1132 <213> ORGANISM: bovine 1134 <400> SEQUENCE: 39 1136 Thr Gln Ala Pro Thr Ala Gln Glu Ala Gly Glu Gly Pro Ser Gly Ile 1137 1 1140 <210> SEQ ID NO: 40 1141 <211> LENGTH: 16 1142 <212> TYPE: PRT 1143 <213> ORGANISM: rat 1145 <400> SEQUENCE: 40 .1147 Thr Leu Ala Pro Thr Ala Gln Glu Ala Gly Glu Gly Pro Ser Ser Ile 10 1151 <210> SEQ ID NO: 41 1152 <211> LENGTH: 16 1153 <212> TYPE: PRT 1154 <213> ORGANISM: mouse 1156 <400> SEQUENCE: 41 1158 Thr Gln Ala Pro Thr Ala Gln Glu Ala Gly Glu Gly Pro Ser Gly Ile 1159 1 1162 <210> SEQ ID NO: 42 1163 <211> LENGTH: 16 1164 <212> TYPE: PRT 1165 <213> ORGANISM: chicken 1167 <400> SEQUENCE: 42 1169 Thr Gln Thr Ser Val Ala Gln Glu Val Gly Glu Gly Pro Ser Gly Met 1170 1 1173 <210> SEQ ID NO: 43 1174 <211> LENGTH: 17 1175 <212> TYPE: PRT 1176 <213> ORGANISM: homo sapiens 1178 <400> SEQUENCE: 43 1180 Thr Glu Pro Thr Ile Ser Gln Glu Leu Leu Gly Gln Arg Pro Pro Val 1181 1 5 10 1184 Thr 1188 <210> SEQ ID NO: 44 1189 <211> LENGTH: 16 1190 <212> TYPE: PRT 1191 <213> ORGANISM: bovine 1193 <400> SEQUENCE: 44 1195 Thr Glu Pro Thr Val Ser Gln Glu Leu Gly Gln Arg Pro Pro Val Thr

10

5

1196 1

Input Set : A:\DM6909.ST25.txt

Output Set: N:\CRF4\05072003\I634287C.raw

1199 <210> SEQ ID NO: 45 1200 <211> LENGTH: 16 1201 <212> TYPE: PRT 1202 <213> ORGANISM: rat 1204 <400> SEQUENCE: 45 1206 Thr Glu Pro Thr Val Ser Gln Glu Leu Gly His Gly Pro Ser Met Thr 10 1207 1 1210 <210> SEQ ID NO: 46 1211 <211> LENGTH: 16 1212 <212> TYPE: PRT 1213 <213> ORGANISM: mouse 1215 <400> SEQUENCE: 46 1217 Thr Glu Pro Thr Val Ser Gln Glu Leu Gly His Gly Pro Ser Met Thr 1221 <210> SEQ ID NO: 47 1222 <211> LENGTH: 16 1223 <212> TYPE: PRT 1224 <213> ORGANISM: chicken 1226 <400> SEQUENCE: 47 1228 Thr Arg Pro Thr Val Ser Gln Glu Leu Gly Gly Glu Thr Ala Val Thr 5 1232 <210> SEQ ID NO: 48 1233 <211> LENGTH: 16 1234 <212> TYPE: PRT 1235 <213> ORGANISM: dog 1237 <400> SEQUENCE: 48 1239 Thr Glu Pro Thr Val Ser Glu Leu Ala Gln Arg Pro Pro Val Thr 1240 1 5

## VERIFICATION SUMMARY DATE: 05/07/2003 PATENT APPLICATION: . US/09/634,287C TIME: 13:34:20

Input Set : A:\DM6909.ST25.txt

Output Set: N:\CRF4\05072003\1634287C.raw

L:391 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO

L:392 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:2

L:392 M:283 W: Missing Blank Line separator, <400> field identifier

 $L:393\ M:300\ W:$  (50) Intentionally skipped Sequence, : Sequence Id (0) SEQUENCE:

L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0